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Attorney Docket No. 12203/002001

WIRELESS MODEM

Abstract

A modem includes a base unit for transmitting a data signal having substantially no nonlinear distortion, and a communication card which receives the data signal from the base unit over a wireless medium and which performs echo canceling on the data signal. The base unit is in communication with a telephone line and receives an original signal from the telephone line. The base unit generates an RF modulated signal based on the original signal. The base unit includes a transmitter for transmitting the data signal. Circuitry in the base unit receives the original signal from the telephone line and generates the data signal from the original signal by maintaining a peak voltage excursion of combined original and echo signals within a linear amplification region of the transmitter.

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